

CLAIMS :

1. A method of processing digital coded video data available in the form of a video stream consisting of consecutive frames divided into macroblocks, said frames including at least I-frames, independently coded, P-frames, temporally disposed between said I-frames and predicted from at least a previous I- or P-frame, and B-frames, temporally disposed between an I-frame and a P-frame, or between two P-frames, and bidirectionally predicted from at least these two frames between which they are disposed, said predictions of P- and B-frames being performed by means of a weighted prediction with unequal amount of prediction from the past and the future, said processing method comprising the steps of :
 - determining for each successive macroblock of the current frame related coding parameters characterizing, if any, said weighted prediction ;
 - collecting said parameters for all the successive macroblocks of the current frame, for delivering statistics related to said parameters ;
 - analyzing said statistics for determining a change of preference for the direction of prediction ;
 - detecting the occurrence of a gradual scene change in the sequence of frames each time a change of preference has been determined.
2. A processing method according to claim 1, in which the analysis step is provided for comparing the number of macroblocks having the same directional preference and similar weighting against a predefined threshold derived in relation to the total number of macroblocks in the current frame.
3. A processing method according to claim 2, in which an information about the location and the duration of each scene change is produced and stored in a file.
4. A processing method according to anyone of claims 1 to 3, in which the syntax and semantics of the processed video stream are those of the H.264/AVC standard.
5. A device for processing digital coded video data available in the form of a video stream consisting of consecutive frames divided into macroblocks, said frames including at least I-frames, independently coded, P-frames, temporally disposed between said I-frames and predicted from at least a previous I- or P-frame, and B-frames, temporally disposed between an I-frame and a P-frame, or between two P-frames, and bidirectionally predicted from at least these two frames between which they are disposed, said predictions of P- and B-frames being performed by means of a weighted prediction with unequal amount of prediction from the past and the future, said device comprising the following means :

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<input type="checkbox"/> BIB	Bibliographic Data Sheet
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PCT DOCUMENTS

<input type="checkbox"/> M903	DO/EO Acceptance
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<input type="checkbox"/> ARTIFACT	Artifact
<input type="checkbox"/> CRFS	Computer Readable Form Statement
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<input type="checkbox"/> SEQLIST	Sequence Listing
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<input type="checkbox"/> RETMAIL	Mail Returned by USPS
<input type="checkbox"/> SPEC NO	Specification Not in English
<input type="checkbox"/> XT/	Extension of Time [if not filing date]

DOCUMENT DATE

